

Claims 1-5 are pending.

As set forth in the Specification, the present invention is directed to a novel system for maintaining the CO₂ gas concentration in an incubation chamber at a pres-set desired level. This becomes a problem when the door to the chamber is opened and closed, particularly on a frequent basis. In prior art devices, when the correction was made to bring the pressure in the chamber back to the desired value, the gas supplied after the door was closed would often overshoot or undershoot the desired value. This caused inaccuracies in the specimens being processed.

Claim 1 has been amended to better describe the operation of the various elements of the claim.

For the PID controller, the Examiner relies on the secondary reference to Yoshida. This patent describes a stirred bioreactor tank. That is, there is a tank that has a liquid as distinguished from the incubator chamber of the invention. Further, the PID controller of Yoshida responds to the Ph of the culture liquid. It does not respond to CO₂ gas as in the present invention.

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